

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/586,142
Source: JFWP
Date Processed by STIC: 07/26/2006

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 07/26/2006
PATENT APPLICATION: US/10/586,142 TIME: 14:16:54

Input Set : A:\50026.060001.ST25.txt
Output Set: N:\CRF4\07262006\J586142.raw

3 <110> APPLICANT: Iida, Akihiro
 4 Ban, Hiroshi
 5 Inoue, Makoto
 6 Hirata, Takahiro
 7 Hasegawa, Mamoru
 9 <120> TITLE OF INVENTION: Methods for Producing Minus-Strand RNA Viral Vectors Using
 Hybrid
 10 Promoter Comprising Cytomegalovirus Enhancer and Chicken
 11 Beta-Actin Promoter
 13 <130> FILE REFERENCE: 50026/060001
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/586,142
 C--> 15 <141> CURRENT FILING DATE: 2006-07-17
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP2005/000705
 16 <151> PRIOR FILING DATE: 2005-01-20
 18 <150> PRIOR APPLICATION NUMBER: JP 2004-014653
 19 <151> PRIOR FILING DATE: 2004-01-22
 21 <160> NUMBER OF SEQ ID NOS: 41
 23 <170> SOFTWARE: PatentIn version 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 367
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Cytomegalovirus
 30 <400> SEQUENCE: 1
 31 actagttatt aatagtaatc aattacgggg tcatttagttc atagcccata tatggagttc 60
 33 cgcgttacat aacttacggt aaatggcccg cctggctgac cgcccaacga ccccccgcaca 120
 35 ttgacgtcaa taatgacgta tgttccccata gtaacgccaa tagggacttt ccattgacgt 180
 37 caatgggtgg agtatttacg gtaaaactgcc cacttggcag tacatcaagt gtatcatatg 240
 39 ccaagtaacgc cccctattga cgtcaatgac ggttaaatggc ccgcctggca ttatgcccag 300
 41 tacatgacacct tatgggactt tcctacttgg cagtagatct acgtatttagt catcgctatt 360
 43 accatgg 367
 46 <210> SEQ ID NO: 2
 47 <211> LENGTH: 1248
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Gallus gallus
 51 <400> SEQUENCE: 2
 52 tcgagggtgag ccccacgttc tgcttcactc tccccatctc ccccccctcc ccaccccca 60
 54 ttttgtattt atttattttt taatttattt gtgcagcgat gggggcgggg ggggggggggg 120
 56 ggcgcgcgcgc aggccggggcg gggcggggcg aggccggggc cggggcgcagg cggagagggtg 180
 58 cggccgcgcgc caatcagagc ggcgcgcgtcc gaaagttcc ttttatggcg aggccgcggc 240
 60 ggcggccggcc ctataaaaag cgaagcgcgc ggcggccggg gagtcgcgtgc gacgcgtcc 300
 62 tcgccccctgt ccccgctcc cccgcgcctc ggcgcgcggc ccccgctct gactgaccgc 360
 64 gttactccca caggtgagcg ggcgggacgg cccttctct ccgggctgtat tagcgctt 420
 66 ggtttaatga cggcttggtt ctttctgtg gtcgcgtgaa agccttgagg ggctccggga 480
 68 gggccctttq tgcgqqqqqa qcqqqtcqqq qggtqcgtqc qtqgtqtqtc qcqtcqqqaq 540

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70 cgccgcgtgc ggctccgcgc tgccccggcgg ctgtgagcgc tgcgggcgcg ggcggggct 600
 72 ttgtgcgtc cgcagtgtgc gcgaggggag cgcggccggg ggcgtgcgc cgcgtgcgg 660
 74 ggggggctgc gagggaaaca aaggctgcgt gcgggggtgtg tgcgtggggg ggtgacagg 720
 76 gggtgtggc gcgtcggtcg ggctgcaacc cccctgcac cccctccccc gagttgtga 780
 78 gcacggcccg gtcgtgggtc cggggctccg tacggggcgt ggcgggggc tcgcgtgcc 840
 80 gggcgaaaaa tggcgccagg tgggggtgcc gggcgaaaaa gggcgccctc gggccgggg 900
 82. qggctcgaaa gggggccgcg gggccccccg gagcgccgcg ggctgtcgag ggcggccgag 960
 84 cgcayccat tgcctttat ggttaatcg cgagagggcg caggacttc ctttgccca 1020
 86 aatctgtcg gggccaaaaat ctgggaggcg cgcgcacc ccctctagcg ggcgggggc 1080
 88 gaagcggtgc ggcggggca ggaaggaaaat gggcgaaaaat ggccttcgt cgtcgcccg 1140
 90 cccgcgtccc ttctccctc tccagcctcg gggctgtccg cggggggacg gtcgccttcg 1200
 92 ggggggacgg ggcaggccgg ggttcggctt ctggcgtgtg accggccgg 1248
 95 <210> SEQ ID NO: 3
 96 <211> LENGTH: 95
 97 <212> TYPE: DNA
 98 <213> ORGANISM: Oryctolagus cuniculus
 100 <400> SEQUENCE: 3
 101 cctctgctaa ccatgttcat gccttcttct tttcctaca gtcctggc aacgtgtgg 60
 103 ttattgtgtct gtctcatcat tttggcaaag aattc 95
 106 <210> SEQ ID NO: 4
 107 <211> LENGTH: 1744
 108 <212> TYPE: DNA
 109 <213> ORGANISM: Artificial
 111 <220> FEATURE:
 112 <223> OTHER INFORMATION: an example of CA promoter
 114 <400> SEQUENCE: 4
 115 actagttatt aatagtaatc aattacgggg tcatttagttc atagccata tatggagttc 60
 117 cgcgttacat aacttacgtt aaatggcccg cctggctgac cgcggccaa ccccgccca 120
 119 ttgacgtcaa taatgacgtt tttccatata gtaacgcca tagggacttt ccattgacgt 180
 121 caatgggtgg agtatttacg gtaaaactgcc cacttggcag tacatcaagt gtatcatatg 240
 123 ccaagtacgc cccctattga cgtcaatgac ggttaatggc cgcctggca ttatgcccag 300
 125 tacatgaccc tatggactt tcctacttgg cagtagatct acgtattttagt catcgctatt 360
 127 accatggtcg aggtgagccc cacgttctgc ttcaactctcc ccatctcccc cccctccca 420
 129 cccccaattt tgtattttatt tatttttaa ttatttgtg cagcgatggg ggcggggggg 480
 131 gggggggggc ggcggccagg cggggcgggg cggggcgagg ggcggggggc ggcgggggg 540
 133 agagggtcg gggcagccaa tcagagcggc ggcgtccgaa agtttccccc tatggcgagg 600
 135 cggggcggc ggcggcccta taaaaagcga agcgcgcggc gggcgaaaaat tgcgtgcgac 660
 137 gctgccttcg ccccggtcccc cgcgtccggc cgcctcgcc cgcggccccc cggctctgac 720
 139 tgaccgcgtt actccccacag gtgagcgggc gggacggccc ttctccccc ggctgttaatt 780
 141 agcgcttggt ttaatgacgg ttgtttttt ttctgtggct gcgtgaaagc ttgagggggc 840
 143 tccgggaggg ccctttgtgc gggggggagcg gtcgggggg tgcgtgcgtg tttgtgtgcg 900
 145 tggggagcgc cgcgtcgcc tccgcgtgc cggggggctg tgagcgctgc gggcgccggc 960
 147 cggggctttg tgcgtccgc agtgtgcgcg agggggagcgc ggcggggggc ggtggccccc 1020
 149 ggtgcggggg gggctgcgcg gggaaacaaag gtcgcgtgcg ggtgtgtgc gtgggggggt 1080
 151 gagcaggggg tgtggcgcg tcggtcggc tgcaaccccc cctgcaccccc cctcccccag 1140
 153 ttgctgagca cggccccggct tcgggtgcgg ggcctccgtac gggcggtggc ggcggggctcg 1200
 155 ccgtgcgggg cgggggggtgg cggcaggtgg ggggtccggg cggggcgccgg cgcctcgcc 1260
 157 cgggggaggg ctcggggggag gggcgccggc gccccggag cgcggccggc tgcgtgcgcg 1320
 159 cqgcqqaqcq cqcqcattqc ctttatqgt aatcqtcqa qaqqqgcqcaq qqacttcctt 1380

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161	tgtcccaaat ctgtgcggag ccgaaatctg ggaggcgccg ccgcaccccc tctagcgggc	1440
163	gcggggcgaa gcgggtgcggc gcccgcagga aggaaatggg cggggagggc cttcgtgcgt	1500
165	cgcgcgcggc cggcgcgcgc ctcgcgtt ctcgcgtt ctcgcgtt ctcgcgtt ctcgcgtt	1560
167	gccttcgggg gggacggggc agggcgggt tcggcttcg cgtgtgtgacc gcggctcta	1620
169	gagcctctgc taaccatgtt catgccttct tcttttcct acagctcctg ggcaacgtgc	1680
171	tggttattgt gctgtctcat cattttggca aagaattcgg cttgatcgaa gcttgcccac	1740
173	catg	1744
176	<210> SEQ ID NO: 5	
177	<211> LENGTH: 24	
178	<212> TYPE: RNA	
179	<213> ORGANISM: Artificial	
181	<220> FEATURE:	
182	<223> OTHER INFORMATION: an example of a hammerhead ribozyme	
185	<220> FEATURE:	
186	<221> NAME/KEY: misc_feature	
187	<222> LOCATION: (5)..(5)	
188	<223> OTHER INFORMATION: g or a or u or c	
190	<220> FEATURE:	
191	<221> NAME/KEY: misc_feature	
192	<222> LOCATION: (8)..(19)	
193	<223> OTHER INFORMATION: g or a or u or c	
195	<220> FEATURE:	
196	<221> NAME/KEY: misc_feature	
197	<222> LOCATION: (24)..(24)	
198	<223> OTHER INFORMATION: g or a or u or c	
200	<400> SEQUENCE: 5	
W-->	201 cugangannnnnnnnnng aaan	24
204	<210> SEQ ID NO: 6	
205	<211> LENGTH: 23	
206	<212> TYPE: DNA	
207	<213> ORGANISM: Bacteriophage T7	
209	<400> SEQUENCE: 6	
210	taatacgtact cactatacgaa aga	23
213	<210> SEQ ID NO: 7	
214	<211> LENGTH: 23	
215	<212> TYPE: DNA	
216	<213> ORGANISM: Bacteriophage T3	
218	<400> SEQUENCE: 7	
219	aattaaccct cactaaaggaa aga	23
222	<210> SEQ ID NO: 8	
223	<211> LENGTH: 23	
224	<212> TYPE: DNA	
225	<213> ORGANISM: Bacteriophage SP6	
228	<220> FEATURE:	
229	<221> NAME/KEY: misc_feature	
230	<222> LOCATION: (22)..(22)	
231	<223> OTHER INFORMATION: a or g or c or t	
233	<400> SEQUENCE: 8	
W-->	234 attaggtgaa cactatacgaa gng	23

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Input Set : A:\50026.060001.ST25.txt

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237 <210> SEQ ID NO: 9
 238 <211> LENGTH: 34
 239 <212> TYPE: DNA
 240 <213> ORGANISM: Bacteriophage P1
 242 <400> SEQUENCE: 9
 243 ataaacttcgt ataatgtatg ctatacgaag ttat 34
 246 <210> SEQ ID NO: 10
 247 <211> LENGTH: 34
 248 <212> TYPE: DNA
 249 <213> ORGANISM: Saccharomyces cerevisiae
 251 <400> SEQUENCE: 10
 252 gaagttccta ttctcttagaa agtataaggaa cttc 34
 255 <210> SEQ ID NO: 11
 256 <211> LENGTH: 10
 257 <212> TYPE: RNA
 258 <213> ORGANISM: Artificial
 260 <220> FEATURE:
 261 <223> OTHER INFORMATION: an example of Sendai virus S sequence (w= a or c; v=a or c
 or g)
 263 <400> SEQUENCE: 11
 264 ucccwvuuwc 10
 267 <210> SEQ ID NO: 12
 268 <211> LENGTH: 10
 269 <212> TYPE: RNA
 270 <213> ORGANISM: Artificial
 272 <220> FEATURE:
 273 <223> OTHER INFORMATION: an example of Sendai virus S sequence
 275 <400> SEQUENCE: 12
 276 ucccaguuuc 10
 279 <210> SEQ ID NO: 13
 280 <211> LENGTH: 10
 281 <212> TYPE: RNA
 282 <213> ORGANISM: Artificial
 284 <220> FEATURE:
 285 <223> OTHER INFORMATION: an example of Sendai virus S sequence
 287 <400> SEQUENCE: 13
 288 ucccacuuac 10
 291 <210> SEQ ID NO: 14
 292 <211> LENGTH: 10
 293 <212> TYPE: RNA
 294 <213> ORGANISM: Artificial
 296 <220> FEATURE:
 297 <223> OTHER INFORMATION: an example of Sendai virus S sequence
 299 <400> SEQUENCE: 14
 300 ucccacuuuc 10
 303 <210> SEQ ID NO: 15
 304 <211> LENGTH: 10
 305 <212> TYPE: DNA
 306 <213> ORGANISM: Artificial
 308 <220> FEATURE:

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309 <223> OTHER INFORMATION: an example of Sendai virus S sequence
311 <400> SEQUENCE: 15
312 agggtaaaag
315 <210> SEQ ID NO: 16
316 <211> LENGTH: 10
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial
320 <220> FEATURE:
321 <223> OTHER INFORMATION: an example of Sendai virus S sequence
323 <400> SEQUENCE: 16
324 agggtaatg
327 <210> SEQ ID NO: 17
328 <211> LENGTH: 10
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial
332 <220> FEATURE:
333 <223> OTHER INFORMATION: an example of Sendai virus S sequence
335 <400> SEQUENCE: 17
336 agggtaaaag
339 <210> SEQ ID NO: 18
340 <211> LENGTH: 9
341 <212> TYPE: RNA
342 <213> ORGANISM: Artificial
344 <220> FEATURE:
345 <223> OTHER INFORMATION: an example of Sendai virus E sequence
347 <400> SEQUENCE: 18
348 auucuuuuu
351 <210> SEQ ID NO: 19
352 <211> LENGTH: 9
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: an example of Sendai virus E sequence
359 <400> SEQUENCE: 19
360 taagaaaaaa
363 <210> SEQ ID NO: 20
364 <211> LENGTH: 10
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
369 <223> OTHER INFORMATION: an example of Sendai virus S sequence
371 <400> SEQUENCE: 20
372 ctttcacccct
375 <210> SEQ ID NO: 21
376 <211> LENGTH: 15
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: an example of Sendai virus E sequence

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5,8,9,10,11,12,13,14,15,16,17,18,19,24
Seq#:8; N Pos. 22

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,5,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33
Seq#:34,35,36,37,38,39,40,41

VERIFICATION SUMMARY

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0